

4.2.B. 0513020102.

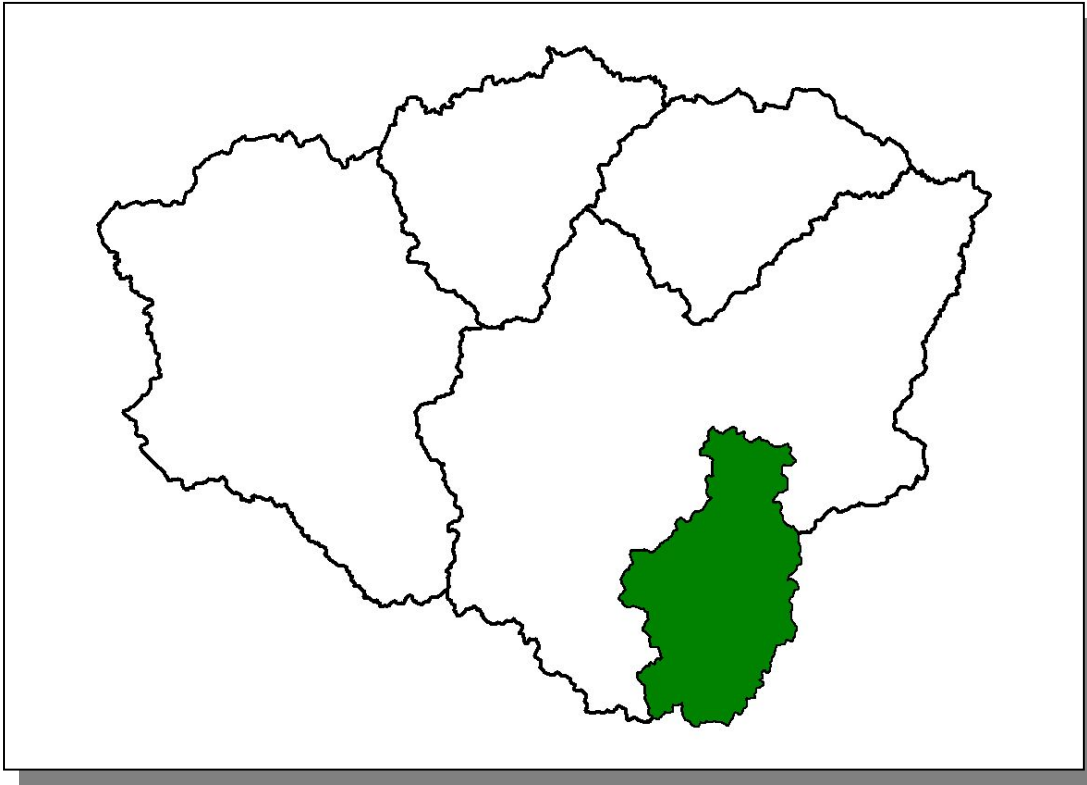


Figure 4-60. Location of Subwatershed 0513020102. All Old Hickory Lake HUC-10 subwatershed boundaries are shown for reference.

4.2.B.i. 051302010201 (Round Lick Creek).

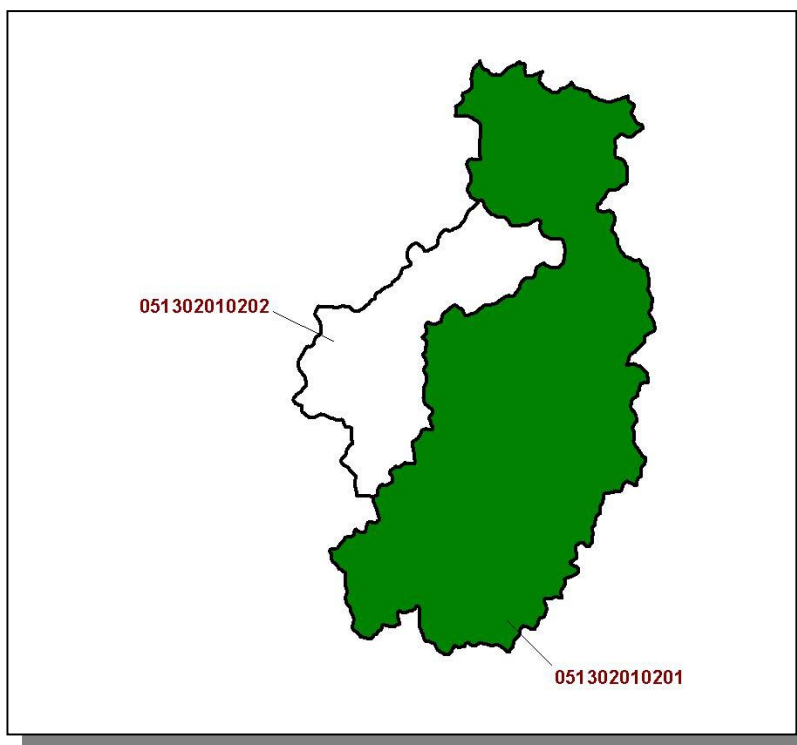


Figure 4-61. Location of Subwatershed 051302010201. All HUC-12 subwatershed boundaries are shown for reference.

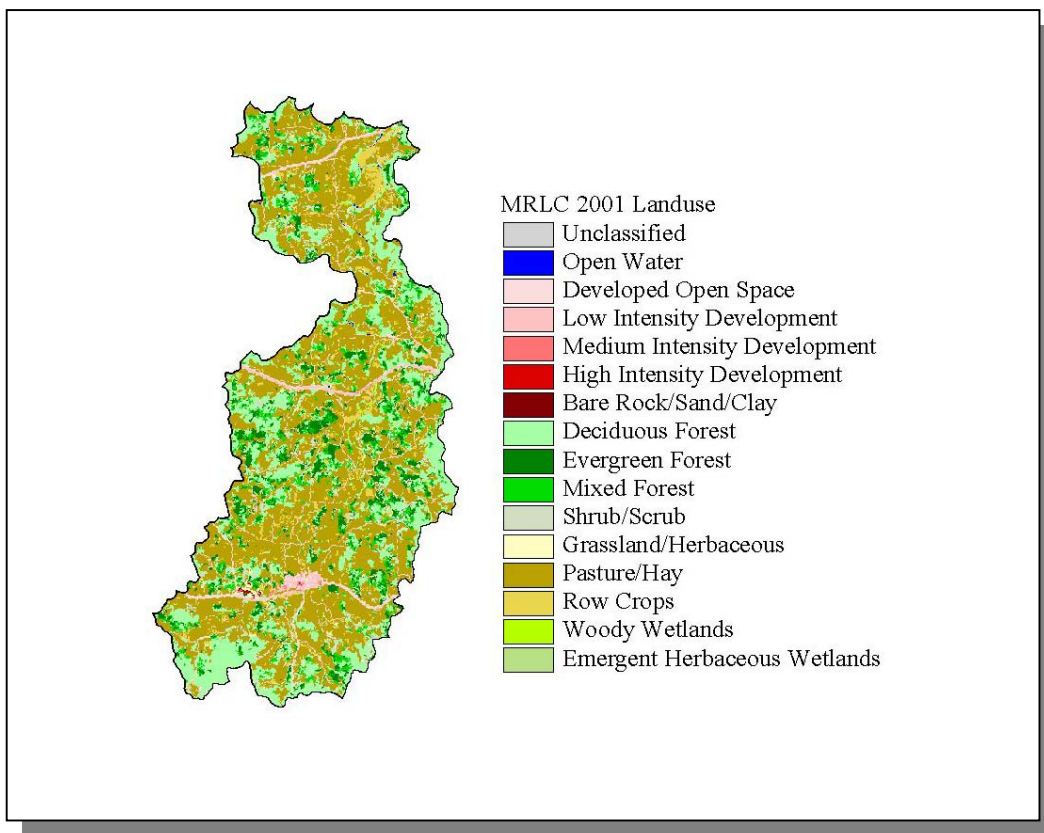


Figure 4-62. Illustration of Land Use Distribution in Subwatershed 051302010201.

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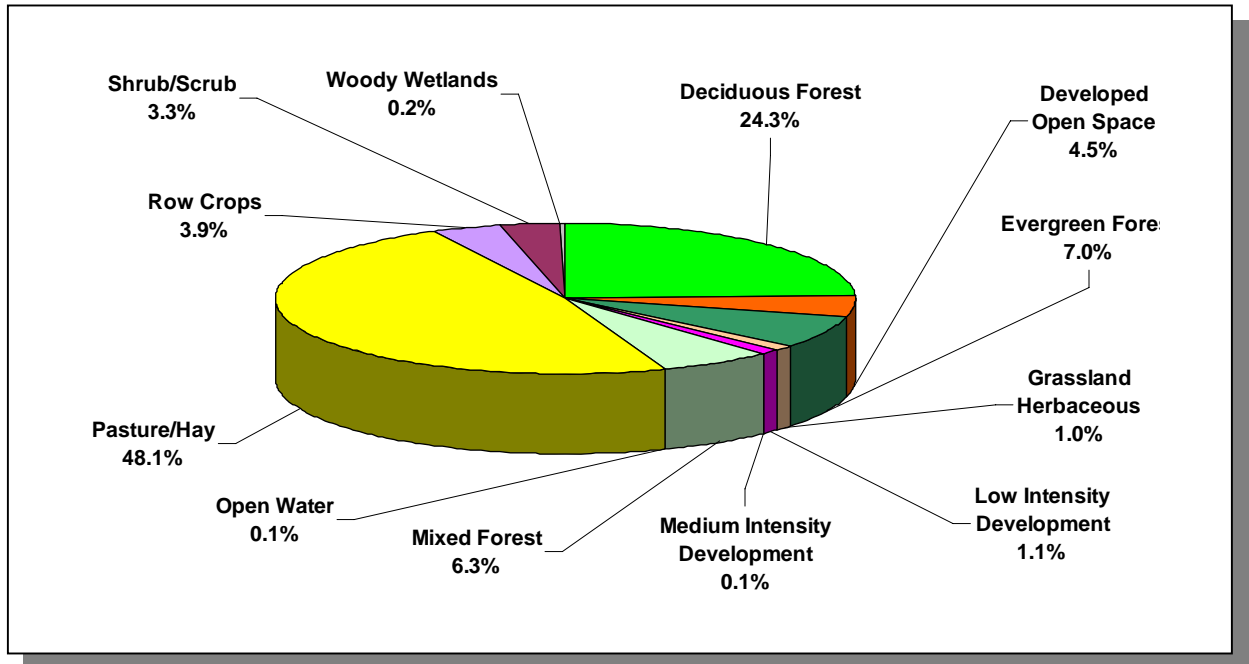


Figure 4-63. Land Use Distribution in Subwatershed 051302010201. More information is provided in Appendix IV.

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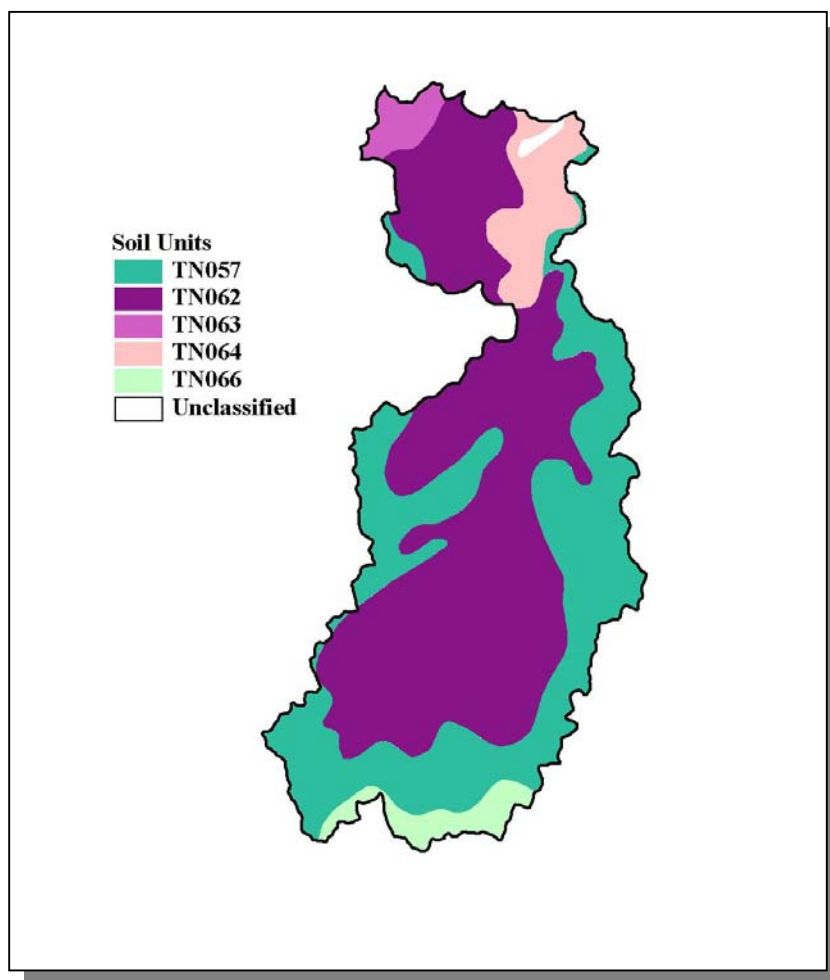


Figure 4-64. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010201.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN057	0.00	C	1.14	5.01	Clayey Loam	0.33
TN062	0.00	C	0.98	4.40	Clayey Loam	0.26
TN063	0.00	C	1.19	5.72	Clayey Loam	0.32
TN064	7.00	C	1.19	5.82	Silty Loam	0.37
TN066	0.00	B	2.62	4.75	Loam	0.28

Table 4-46. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010201. The definition of “Hydrologic Group” is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Smith	14,143	16,047	17,712	4.96	702	797	879	25.2

Table 4-47. Population Estimates in Subwatershed 051302010201.

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Watertown	Wilson	1,250	566	512	54	0

Table 4-48. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302010201.

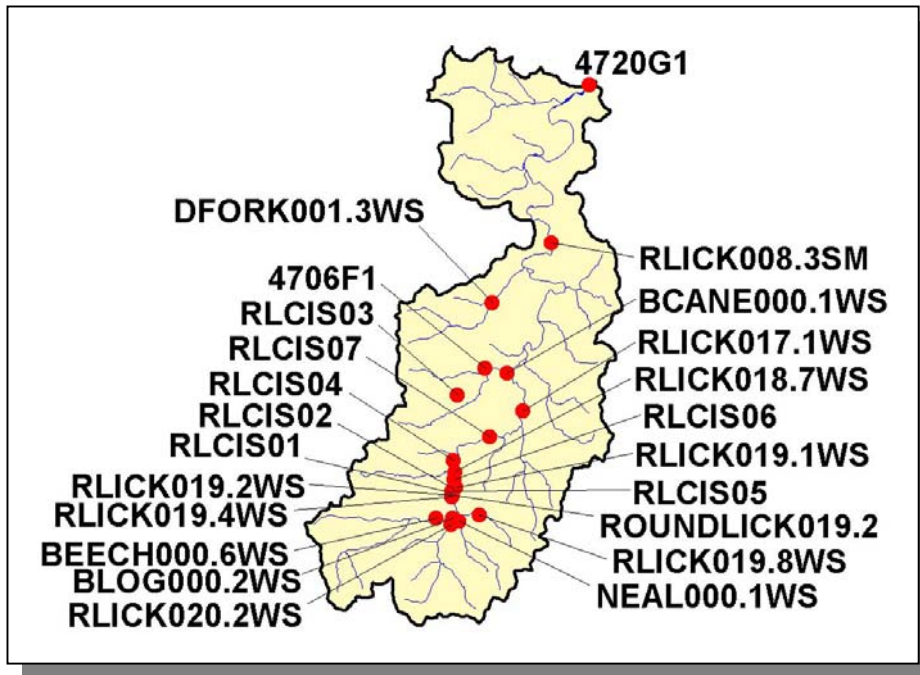


Figure 4-65. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302010201. More information, including site names and locations, is provided in Appendix IV.

4.2.B.i.a. Point Source Contributions.

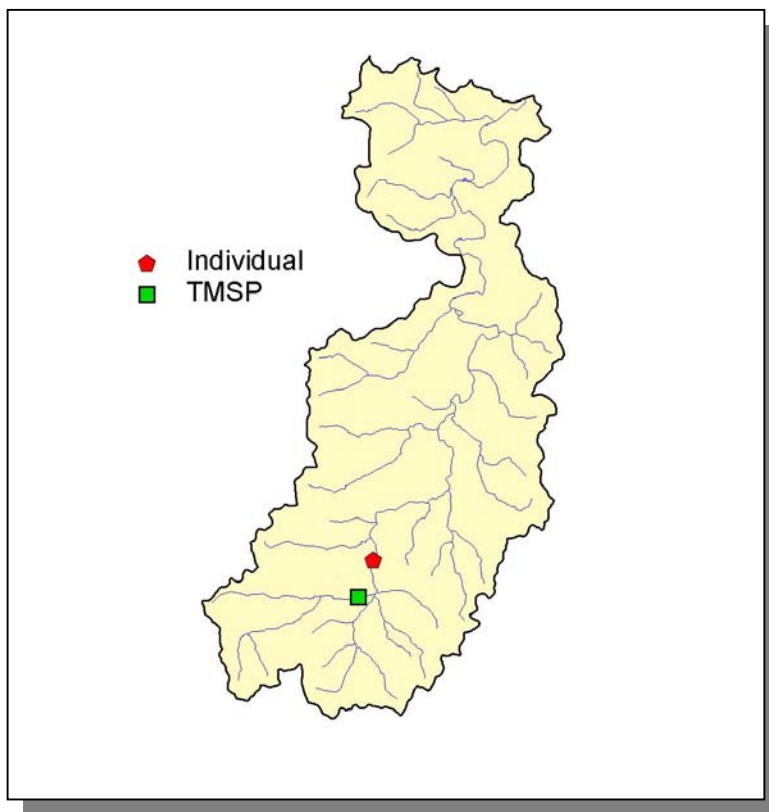


Figure 4-66. Location of Permits Issued in Subwatershed 051302010201. More information, including the names of facilities, is provided in Appendix IV.

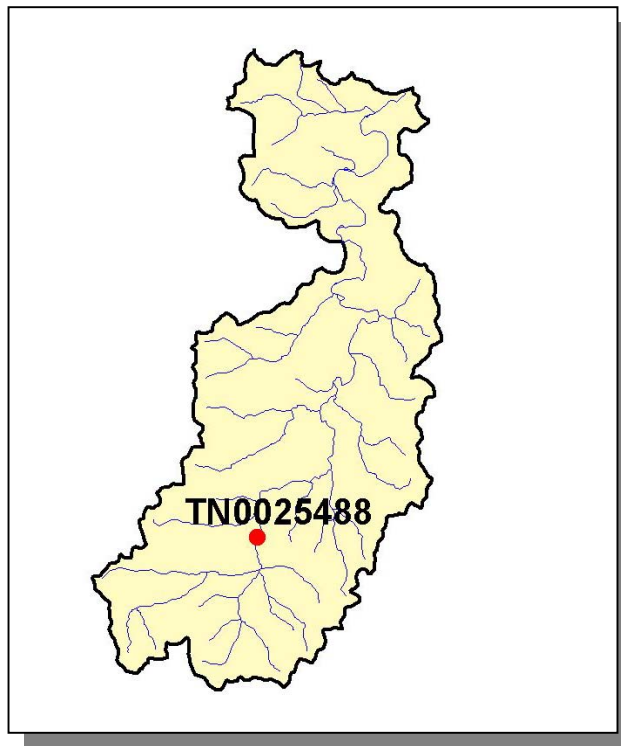


Figure 4-67. Location of Active NPDES Sites in Subwatershed 051302010201. More information, including the names of facilities, is provided in Appendix IV.



Figure 4-68. Location of TMSP Sites in Subwatershed 051302010201. More information, including the names of facilities, is provided in Appendix IV.

4.2.B.i.a.i. Dischargers to Water Bodies Listed on the 2004 303(d) List

There is one NPDES facility discharging to water bodies listed on the 2004 303(d) list in Subwatershed 051302010201:

- TN0025488 (Watertown STP) discharges to Round Lick Creek @ RM 19.2

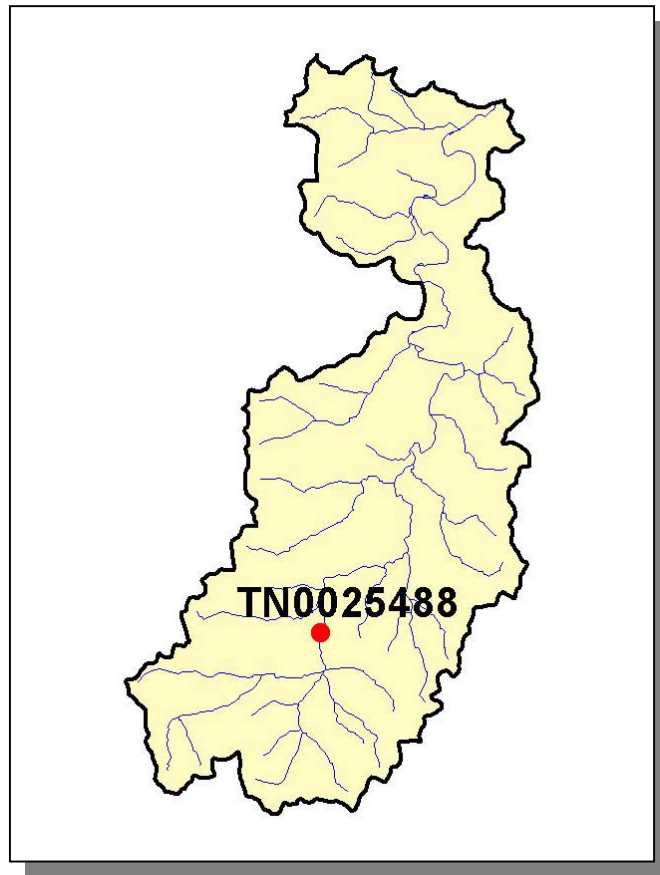


Figure 4-69. Location of NPDES Dischargers to Water Bodies Listed on the 2004 303(d) List in Subwatershed 051302010201. More information, including the names of facilities, is provided in Appendix IV.

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PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0025488				0	

Table 4-49. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051302010201. Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

PERMIT #	WET	CBOD ₅	NH ₃	FECAL COLIFORM	TRC	TSS	SETTLEABLE SOLIDS	DO	pH	Ag
TN0025488	X	X	X	X	X	X	X	X	X	X

Table 4-50. Inorganic Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051302010201. WET, Whole Effluent Toxicity; CBOD₅, Carbonaceous Biochemical Oxygen Demand (5-Day); TRC, Total Residual Chlorine; TSS, Total Suspended Solids.

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4.2.B.i.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
3,953	7,248	210	11	301	70

Table 4-51. Summary of Livestock Count Estimates in Subwatershed 051302010201.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Smith	17,187	29,672	814	683	1,883	332
Wilson	27,209	51,090	1,505	1,585	1,700	465

Table 4-52. Summary of Livestock Count Estimates in Smith and Wilson Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Smith	81.0	81.0	1.1	2.6
Wilson	98.1	97.0	1.7	6.8

Table 4-53. Forest Acreage and Annual Removal Rates (1987-1994) in Smith and Wilson Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.67
Grass (Hayland)	0.31
Legumes, Grass (Hayland)	0.31
Grass, Forbs, Legumes (Mixed Pasture)	0.85
Corn (Row Crops)	2.22
Sorghum (Row Crops)	6.64
Tobacco (Row Crops)	16.34
Wheat (Close-Grown Cropland)	1.96
All Other Close-Grown Cropland	2.49
Farmsteads and Ranch Headquarters	0.30

Table 4-54. Annual Estimated Total Soil Loss in Subwatershed 051302010201.

4.2.B.ii. 051302010202 (Jennings Fork).

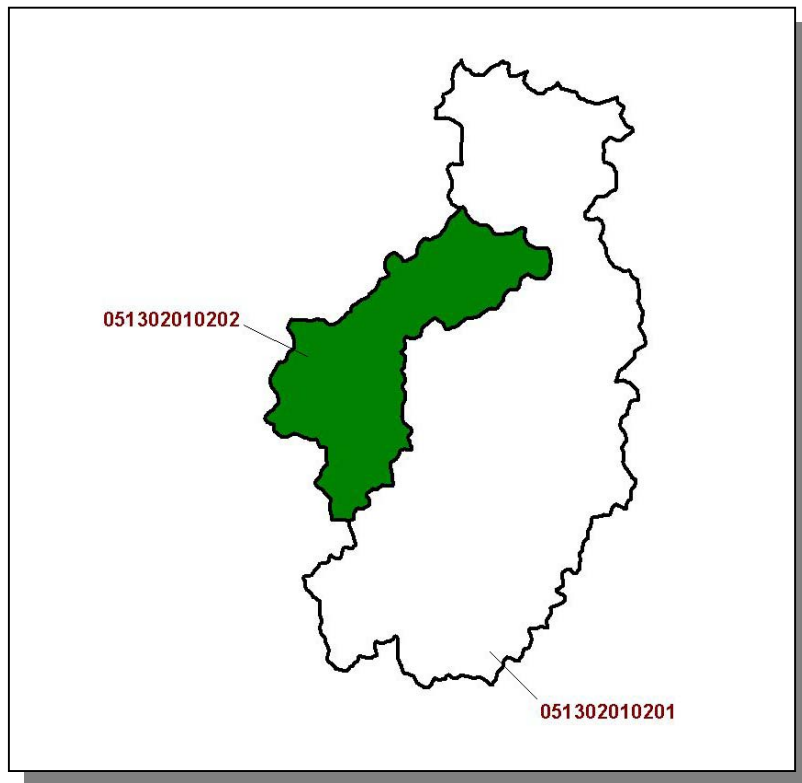


Figure 4-70. Location of Subwatershed 051302010202. All HUC-12 subwatershed boundaries are shown for reference.

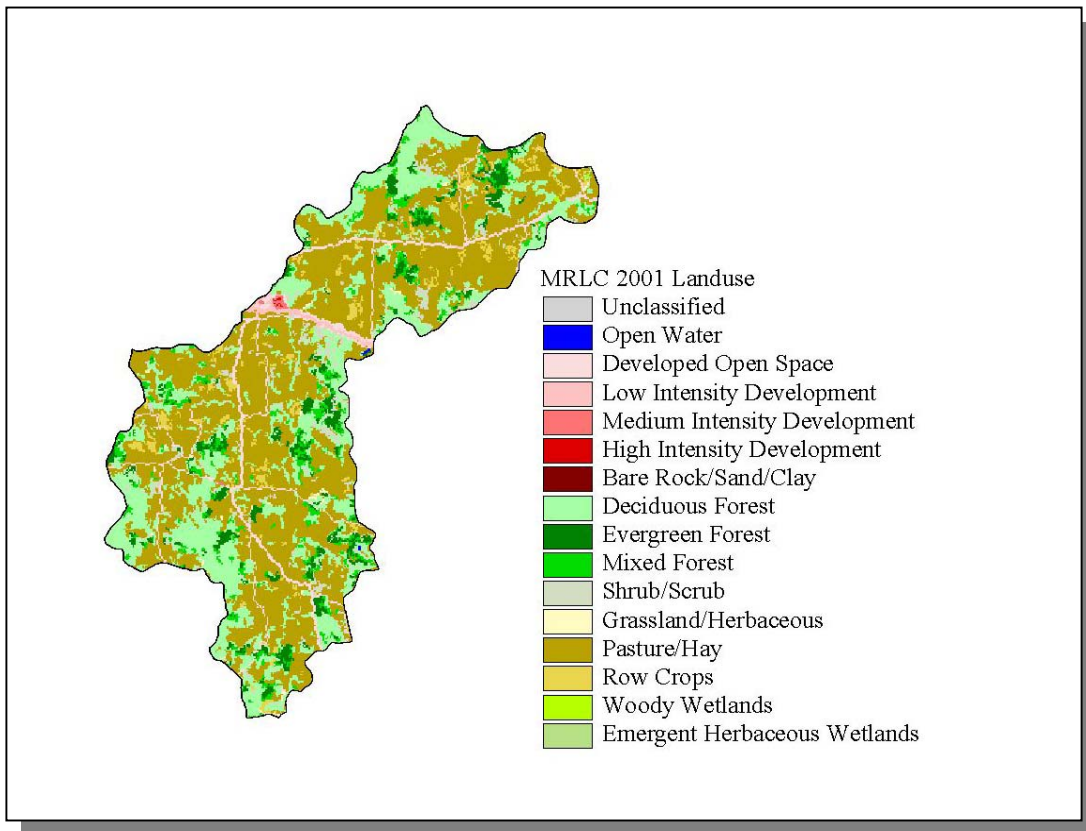


Figure 4-71. Illustration of Land Use Distribution in Subwatershed 051302010202.

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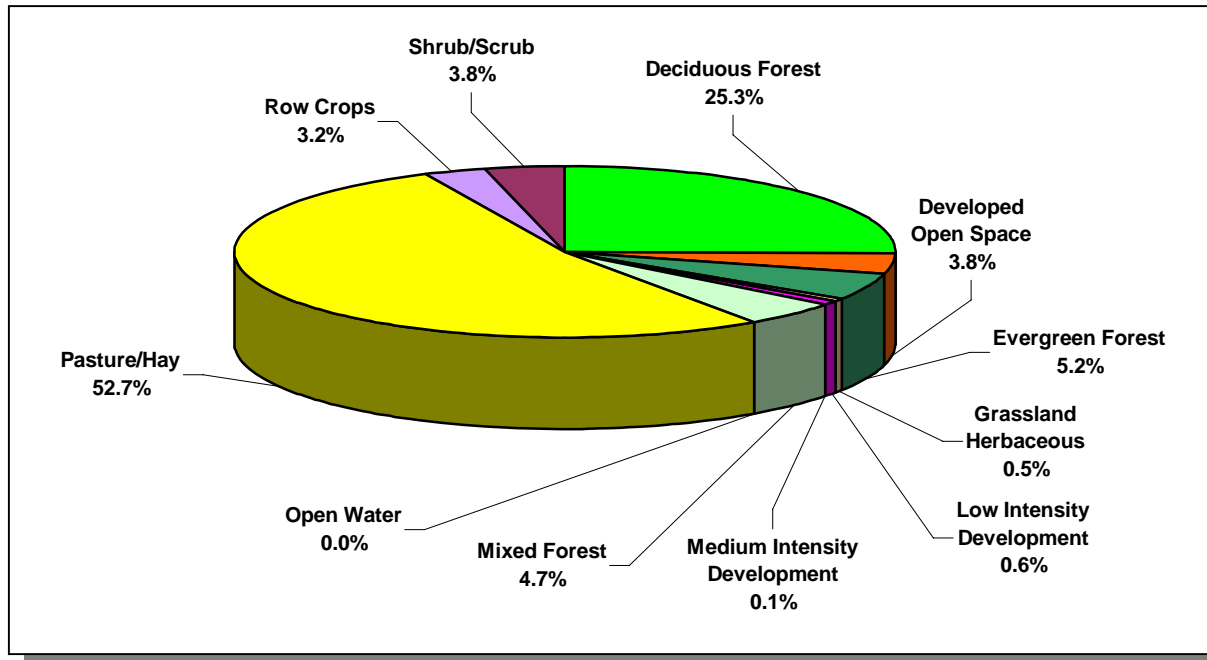


Figure 4-72. Land Use Distribution in Subwatershed 051302010202. More information is provided in Appendix IV.

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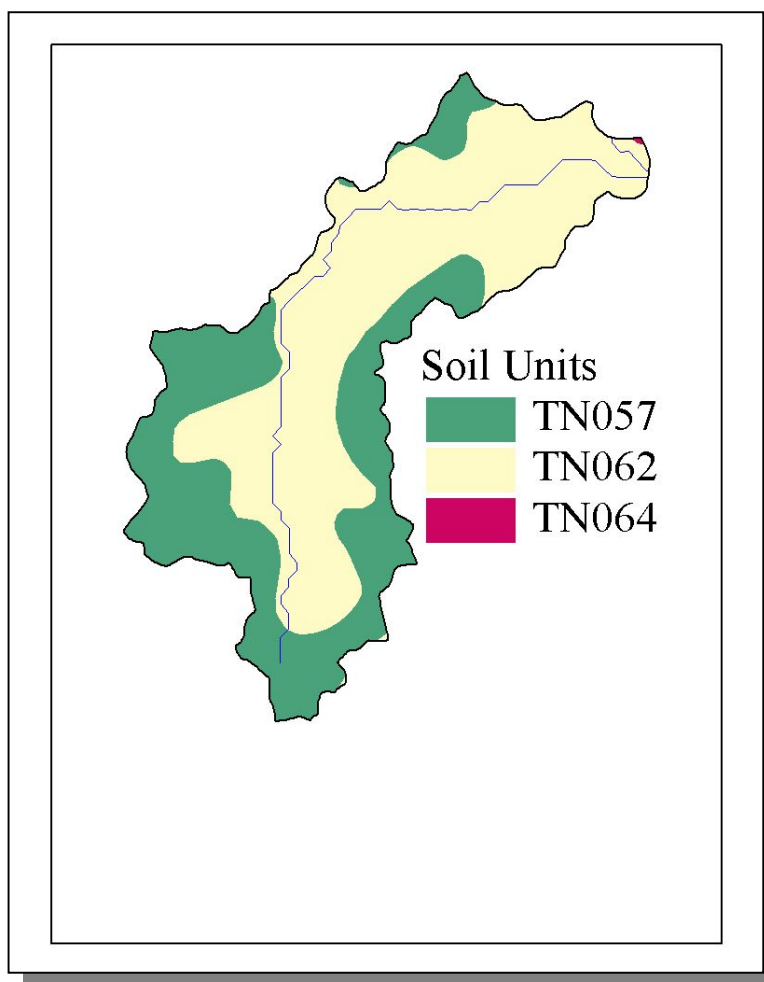


Figure 4-73. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010202.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN057	0.00	C	1.14	5.01	Clayey Loam	0.33
TN062	0.00	C	0.98	4.40	Clayey Loam	0.26
TN064	7.00	C	1.19	5.82	Silty Loam	0.37

Table 4-55. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302010202. The definition of “Hydrologic Group” is provided in Appendix IV.

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County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-2000)
	1990	1997	2000		1990	1997	2000	
Smith	14,143	16,047	17,712	0.02	3	4	4	33.3

Table 4-56. Population Estimates in Subwatershed 051302010202.



Figure 4-74. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302010202. More information, including site names and locations, is provided in Appendix IV.

4.2.B.ii.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.B.ii.b. Nonpoint Source Contributions.

LIVESTOCK COUNTS					
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
1,290	2,421	71	<5	81	22

Table 4-57. Summary of Livestock Count Estimates in Subwatershed 051302010202.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

LIVESTOCK COUNTS						
County	Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Hogs	Sheep
Smith	17,187	29,672	814	683	1,883	332
Wilson	27,209	51,090	1,505	1,585	1,700	465

Table 4-58. Summary of Livestock Count Estimates in Smith and Wilson Counties.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Smith	81.0	81.0	1.1	2.6
Wilson	98.1	97.0	1.7	6.8

Table 4-59. Forest Acreage and Annual Removal Rates (1987-1994) in Smith and Wilson Counties.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.43
Grass (Hayland)	0.37
Legumes, Grass (Hayland)	0.37
Grass, Forbs, Legumes (Mixed Pasture)	0.91
Corn (Row Crops)	2.22
Soybeans (Row Crops)	6.72
Tobacco (Row Crops)	19.18
Wheat (Close-Grown Cropland)	1.96
All Other Close-Grown Cropland	2.49
Farmsteads and Ranch Headquarters	0.26

Table 4-60. Annual Estimated Total Soil Loss in Subwatershed 051302010202.